

Amendments to the Drawing Figures:

The attached drawing sheet includes proposed changes to FIG. 1 and replaces the original sheet including FIG. 1.

Attachment: Replacement Sheet

REMARKS/DISCUSSION OF ISSUES

By this Amendment, Applicant amends claims 11 and 12, and adds new claims 12-20. Accordingly, claims 1-20 remain pending in the application.

Applicant thanks the Examiner for acknowledging the claim for priority and receipt of certified copies of the priority documents.

The Examiner is respectfully requested to state whether the drawings are acceptable.

Reexamination and reconsideration are respectfully requested in view of the following Remarks.

35 U.S.C. § 1-12

The Office Action rejects claims 1-12 under 35 U.S.C. § 1-12 over Stadler U.S. Patent Publication 2002/0016548 ("Stadler").

Applicant respectfully submits that claims 1-12 are all patentable over Stadler for at least the following reasons.

Claim 1

Among other things, in the method of claim 1, a multidimensional output data array is formed comprising array positions arranged along at least a first data-axis and a second data-axis, and values of the quantity are entered in the multidimensional output data array, such that values of the quantity at substantially the same instant are entered at respective positions in the multidimensional output data array at equal positions along the first data-axis and values of the quantity at substantially the same spatial position are entered at respective positions in the multidimensional output data array at equal positions along the second data-axis.

Applicant respectfully submits that Stadler does not disclose a method including this combination of features.

The Office Action cites Stadler's "spatial vector" as supposedly corresponding to the recited multidimensional output data array.

Applicant respectfully disagrees. The multidimensional output data array of claim 1 has at least two data-axes and is populated with values, such that values

representing a same time are aligned along a first data-axis, and values representing a same spatial position are aligned along a second data-axis.

Stadler's "spatial vector" IS a value. It is not an array that is populated with values. And, for example, while the Office Action cites paragraph [0083] as supposedly the claimed feature wherein values at substantially the same instant are aligned along the first data-axis of a multidimensional array, it is very clear that [0083] does not discuss anything about aligning any values in the "spatial vector" which the Office Action cites as supposedly corresponding to the recited multidimensional output data array.

Applicant respectfully submits that the cited text in Stadler does not disclose any multidimensional output data array of claim 1 has at least two data-axes and is populated with values, such that values representing a same time are aligned along a first data-axis, and values representing a same spatial position are aligned along a second data-axis.

Accordingly, for at least these reasons, Applicant respectfully submits that claim 1 is patentable over the cited art.

Claims 2-10

Claims 2-10 depend from claim 1 and are deemed patentable for at least the reasons set forth above with respect to claim 1, and also for at least the following additional reasons.

Claim 6

Among other things, in the method of claim 6, the values of the quantity are derived from a series of images.

Stadler does not disclose any values in any multidimensional output data array are derived from a series of images.

The cited paragraph in Stadler merely discloses that Stadler monitors electrocardiogram signals. It does not remotely suggest that any "spatial vector" (which the Office Action cites as supposedly corresponding to the recited multidimensional output data array) is populated with values that are derived from a series of images. Indeed, Stadler does not even disclose such a series of images.

Accordingly, for at least these additional reasons, Applicant respectfully submits that claim 6 is patentable over the cited art.

Claim 7

Among other things, in the method of claim 7, values of the quantity at respective instants are derived from respective images in the series of images.

The Office Action cites paragraph [0005] of Stadler that mentions “a *periodic PQRST electrical activation sequence*.”

However, Applicant respectfully submit that paragraph [0005] of Stadler does not disclose any values populating a “spatial vector” (which the Office Action indicates corresponds to the recited multidimensional output data array) at respective instants along the first data-axis are derived from respective images in any series of images.

Accordingly, for at least these additional reasons, Applicant respectfully submits that claim 7 is patentable over the cited art.

Claim 8

Among other things, in the method of claim 8, respective positions in the multidimensional output data array are linked to respective spatial sections in respective images of the series.

The Office Action cites paragraph [0070] of Stadler that mentions “*uplink telemetry transmission and analysis*.”

However, Applicant respectfully submit that paragraph [0070] of Stadler does not disclose that any positions in a “spatial vector” (which the Office Action indicates corresponds to the recited multidimensional output data array) are linked to any respective spatial sections any series of images.

Accordingly, for at least these additional reasons, Applicant respectfully submits that claim 8 is patentable over the cited art.

Claim 9

Among other things, in the method of claim 9, a position in the displayed multidimensional output data array is indicated and on the basis of the indicated position in the displayed multidimensional output data array the

corresponding image of the series is displayed and the corresponding spatial section in the image is marked.

The Office Action cites paragraph [0056] of Stadler discloses a display and that a display "would enable" graphics and textual interface.

Respectfully . . . so what? Where does paragraph [0056] of Stadler state that a position in the displayed multidimensional output data array is indicated and on the basis of the indicated position in the displayed multidimensional output data array the corresponding image of the series is displayed and the corresponding spatial section in the image is marked? Applicant respectfully submits that it clearly does not disclose any such thing.

Accordingly, for at least these additional reasons, Applicant respectfully submits that claim 9 is patentable over the cited art.

Claim 10

Among other things, in the method of claim 10, values of a quantity pertaining to perfusion of a myocardium populate a multidimensional output data array.

The Office Action cites paragraph [0007] of Stadler that mentions "ischemic myocardium."

However, paragraph [0007] does not disclose that values of any quantity pertaining to perfusion of a myocardium populate a multidimensional output data array.

Accordingly, for at least these additional reasons, Applicant respectfully submits that claim 10 is patentable over the cited art.

Claims 11 and 12

Claims 11 and 12 recite features similar to those discussed above with respect to claim 1 and are deemed patentable for at least similar reasons to those set forth above with respect to claim 1.

NEW CLAIMS 13-20

Claims 13-20 depend variously from claims 1 and 11 and are deemed patentable for at least the reasons set forth above with respect to claims 1 and 11.

CONCLUSION

In view of the foregoing explanations, Applicant respectfully requests that the Examiner reconsider and reexamine the present application, allow claims 1-20 and pass the application to issue. In the event that there are any outstanding matters remaining in the present application, the Examiner is invited to contact Kenneth D. Springer (Reg. No. 39,843) at (571) 283.0720 to discuss these matters.

Respectfully submitted,

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